EXTECH ®
INSTRUMENTS

PRODUCT DATASHEET

PRC30 Multifunction Process Calibrator

Precision source and measure for thermocouples (8-Types), mA, mV, and V devices

Applications include:
- Lab and Field Calibration and Verification Operations of Sensors, Thermocouple Probes, Controllers, Panel meters & Testing tools.
- Temperature Control Process Troubleshooting
- Process devices calibration and simulation: Transducers, Transmitters, Indicators, Controllers, and Recorders
- Field test and service
- Bench research and development

Features

- Palm-sized double molded housing and large dot-matrix backlit LCD
- Measures DC process signals
- High accuracy calibration function simulates precision thermocouple outputs for use in calibrating thermometers, transmitters, controllers or recorders
- Up to five user adjustable calibration presets
- Displays output in terms of millivolts or temperature based on thermocouple tables
- 24V Loop Power
- Zero adjustment, auto zero when power on and change mode
- Standard banana I/O ports and mini thermocouple inputs
- Large battery bank for extended work cycle
- External power adapter for continuous work cycle

Complete with test leads, alligator clips, Thermocouple calibration cable with subminiature connector, universal calibration cable with subminiature terminal, 100V-240V AC Universal Adaptor with 4 plugs, six 1.5V AA batteries, and hard carrying case

Ordering

PRC30 ....Multifunction Process Calibrator
PRC30-NIST ....PRC30 with Certificate of Calibration Traceable to NIST

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Specifications	Range	Basic Accuracy
DC Source		
Current	0 to 24mA, -25% to +125%	±(0.01% + 1 digit)
Max. Load	1000Ω @ 24mA	
Voltage	0 to 2000mV, 0 to 20V	±(0.01% + 1 digit)
mV/Temp	-5 to 55mV	±(0.01% + 1 digit)
Type J	-58 to 1832°F (-50 to 1000°C)	±(0.05% + 2°F or 1°C)
Type K	-58 to 2498°F (-50 to 1370°C)	±(0.05% + 2°F or 1°C)
Type T	-184 to 752°F (-120 to 400°C)	±(0.05% + 2°F or 1°C)
Type E	-58 to 1382°F (-50 to 750°C)	±(0.05% + 2°F or 1°C)
Type C, R, S	32 to 3182°F (0 to 1750°C)	±(0.05% + 2°F or 1°C)
Type N	-58 to 2372°F (-50 to 1300°C)	±(0.05% + 2°F or 1°C)
DC Measure		
Current	0 to 50mA, -25% to +230%	±(0.01% + 1 digit)
Voltage	0 to 1999mV / 2 to 20V	±(0.01% + 1 digit) / auto range
mV/Temp	-10 to 60mV	±(0.01% + 1 digit)
Type J	-58 to 1832°F (-50 to 1000°C)	±(0.05% + 1.8°F or 1°C)
Type K	-58 to 2498°F (-50 to 1370°C)	±(0.05% + 1.8°F or 1°C)
Type T	-184 to 752°F (-120 to 400°C)	±(0.05% + 1.8°F or 1°C)
Type E	-58 to 1382°F (-50 to 750°C)	±(0.05% + 1.8°F or 1°C)
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Loop Power	24V	
Meter Dims (LxWxH)	6.3" x 3.2" x 1.7" (159 x 80 x 44mm)	
Meter Wt	8.4oz (236g) - not including battery weight	

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  PRC30 PRC30-NIST